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	Applicant(s) John C. Harvey and James W. Cuddihy	
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UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Bumstead		01/02/32
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,778,721	12/11/73	Moran	325/396	09/08/72
	4,035,838	07/12/77	Bassani et al.	358/86	03/16/76
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,135,156	01/16/79	Sanders, Jr. et al.	325/4	06/20/74
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,338,643	07/06/82	Tadokoro	360/135	
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,369,333	01/18/83	Gemperle et al.	178/22.13	
	4,380,027	04/12/83	Leventer et al.	358/147	12/08/80
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,402,009	08/30/83	Rathjens et al.	358/125	04/08/81
	4,405,946	09/20/83	Knight	358/192.1	
	4,410,911	10/18/83	Field et al.	358/121	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,414,516	11/08/83	Howard	333/21A	
	4,425,664	01/10/84	Sherman et al.	375/8	
	4,426,698	01/17/84	Pargee, Jr.	371/37	08/24/81
	4,429,385	01/31/84	Cichelli et al.	370/92	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,433,211	02/21/84	McCalmont et al.	179/1.5 S	
	4,439,785	03/27/84	Leonard	358/120	
	4,449,249	05/15/84	Price	455/45	
	4,450,442	05/22/84	Tanaka	340/814	
	4,450,477	05/22/84	Lovett	358/86	
	4,451,700	05/29/84	Kempner et al.	179/2 AS	
	4,454,543	06/12/84	Lund et al.	358/118	
	4,454,594	06/12/84	Heffron et al.	364/900	
	4,456,925	06/26/84	Skerlos et al.	358/85	
	4,458,109	07/03/84	Mueller-Schloer	178/22.11	
	4,458,268	07/03/84	Ciciora	358/120	
	4,458,315	07/03/84	Uchenick	364/200	
	4,460,922	07/17/84	Ensinger et al.	358/122	
	4,461,032	07/17/84	Skerlos	455/4	
	4,462,076	07/24/84	Smith, III	364/200	
	4,462,078	07/24/84	Ross	364/300	
	4,475,153	10/02/84	Kihara et al.	364/145	
	4,475,189	10/02/84	Herr et al.	370/62	
	4,476,573	10/09/84	Duckeck	455/45	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
	4,486,773	12/04/84	Okubo	358/84	
	4,488,289	12/11/84	Turner	370/60	
	4,489,220	12/18/84	Oliver	179/2 AM	
	4,491,945	01/01/85	Turner	370/60	
	4,494,142	01/15/85	Mistry	358/118	
	4,494,156	01/15/85	Kadison et al.	360/48	
	4,494,230	01/15/85	Turner	370/60	
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,495,654	01/22/85	Deiss	455/151	
	4,496,171	01/29/85	Cherry	283/61	
	4,496,975	01/29/85	Noirel	358/147	
	4,496,976	01/29/85	Swanson et al.	358/147	
	4,498,098	02/05/85	Stell	358/22	
	4,503,287	03/05/85	Morris et al.	178/22.08	
	4,503,538	03/05/85	Fritz	371/28	
	4,507,680	03/26/85	Freeman	358/86	
	4,509,073	04/02/85	Baran et al.	358/86	
	4,510,623	04/09/85	Bonneau et al.	455/181	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,512,011	04/16/85	Turner	370/60	
	4,513,324	04/23/85	Poetsch et al.	358/214	
	4,520,392	05/28/85	Cox et al.	358/147	
	4,520,404	05/28/85	Von Kohorn	358/335	
	4,521,806	06/04/85	Abraham	358/86	
	4,527,194	07/02/85	Sirazi	358/86	
	4,531,020	07/23/85	Wechselberger et al.	178/22.08	
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,532,547	07/30/85	Bennett	358/148	
	4,533,948	08/06/85	McNamara et al.	358/122	
	4,533,949	08/06/85	Fujimura et al.	358/122	
	4,535,355	08/13/85	Arn et al.	358/123	
	4,538,174	08/27/85	Gargini et al.	358/86	
	4,539,676	09/03/85	Lucas	370/60	
	4,540,849	09/10/85	Oliver	179/2 AM	
	4,543,616	09/24/85	Brooks	358/335	
	4,544,963	10/01/85	Jacoby et al.	360/40	
	4,546,382	10/08/85	McKenna et al.	358/84	
	4,546,387	10/08/85	Glaab	358/186	
	4,550,407	10/29/85	Couasnon et al.	371/29	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	
	4,554,584	11/19/85	Elam et al.	358/165	
	4,558,464	12/10/85	O'Brien, Jr.	455/4	
	4,562,306	12/31/85	Chou et al.	178/22.08	
	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,563,702	01/07/86	Heller et al.	358/119	
	4,566,030	01/21/86	Nickerson et al.	358/84	
	4,566,034	01/21/86	Harger et al.	358/194.1	
	4,567,512	01/28/86	Abraham	358/86	
	4,570,930	02/18/86	Matheson	273/1 E	
	4,573,072	02/25/86	Freeman	358/86	
	4,573,151	02/25/86	Jotwani	370/56	
	4,574,305	03/04/86	Campbell et al.	358/86	
	4,575,750	03/11/86	Callahan	358/86	
	4,577,289	03/18/86	Comerford et al.	364/900	
	4,578,536	03/25/86	Oliver et al.	179/2 AM	
	4,578,718	03/25/86	Parker et al.	360/10.3	
	4,580,165	04/01/86	Patton et al.	358/148	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,583,128	04/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	04/22/86	Guglielmino	364/200	
	4,586,134	04/29/86	Norstedt	364/200	
	4,588,991	05/13/86	Atalla	340/825.31	
	4,589,064	05/13/86	Chiba et al.	364/200	
	4,590,516	05/20/86	Abraham	358/86	
	4,591,248	05/27/86	Freeman	352/133	
	4,591,664	05/27/86	Freeman	179/6.06	
	4,591,906	05/27/86	Morales-Garza et al.	358/84	
	4,592,546	06/03/86	Fascenda et al.	273/1 E	
	4,593,376	06/03/86	Volk	364/900	
	4,594,609	07/10/86	Romao et al.	358/119	
	4,595,950	06/17/86	Löfberg	358/122	
	4,595,951	06/17/86	Filliman	358/147	
	4,595,952	06/17/86	Filliman	358/47	
	4,596,021	06/17/86	Carter et al.	375/5	
	4,597,058	06/24/86	Izumi et al.	364/900	
	4,599,611	07/08/86	Bowker et al.	340/721	
	4,599,647	07/08/86	George et al.	358/122	
	4,600,918	07/15/86	Belisomi et al.	340/711	
	4,600,921	07/15/86	Thomas	340/825.31	
	4,602,279	07/22/86	Freeman	358/86	
	4,603,232	07/29/86	Kurland et al.	179/2 AS	
	4,605,964	08/12/86	Chard	358/147	
	4,605,973	08/12/86	Von Kohorn	358/335	
	4,608,456	08/26/86	Paik et al.	179/1.5 S	
	4,613,901	09/23/86	Gilhousen et al.	358/122	
	4,614,972	09/30/86	Motsch et al.	358/147	
	4,616,262	10/07/86	Toriumi et al.	358/183	
	4,616,263	10/07/86	Eichelberger	358/185	
	4,620,224	10/28/86	Lee et al.	358/119	
	4,620,227	10/28/86	Levin et al.	358/147	
	4,620,229	10/28/86	Amano et al.	358/194.1	
	4,621,259	11/04/86	Schepers et al.	340/707	
	4,621,285	11/04/86	Schilling et al.	358/120	
	4,623,920	11/18/86	Dufresne et al.	358/122	01/20/83
	4,625,235	11/25/86	Watson	358/86	
	4,626,892	12/02/86	Nortrup et al.	358/21 R	
	4,626,909	12/02/86	Oniki et al.	358/114	
	4,630,108	12/16/86	Gomersall	358/84	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,630,262	12/16/86	Callens et al.	370/81	
	4,633,297	12/30/96	Skerlos et al.	358/22	
	4,634,807	01/06/87	Chorley et al.	178/22.08	
	4,634,808	01/06/87	Moerder	178/22.14	
	4,635,121	01/06/87	Hoffman et al.	358/188	
	4,636,858	01/13/87	Hague et al.	358/147	
	4,638,181	01/20/87	Deiss	307/243	
	4,638,357	01/20/87	Heimbach	358/121	
	4,638,359	01/20/87	Watson	358/147	
	4,639,779	01/27/87	Greenberg	358/142	
	4,639,890	01/27/87	Heilveil et al.	364/900	
	4,641,205	02/03/87	Beyers, Jr.	360/33.1	
	4,641,253	02/03/87	Mastran	364/328	
	4,641,307	02/03/87	Russell	370/60	
	4,644,396	02/17/87	Iwasaki	380/6	05/24/85
	4,646,075	02/24/87	Andrews et al.	340/747	
	4,647,964	03/03/87	Weinblatt	358/84	
	4,649,533	03/10/87	Chorley et al.	370/58	
	4,656,629	04/07/87	Kondoh et al.	370/85	
	4,658,093	04/14/87	Hellman	380/25	
	4,658,290	04/14/87	McKenna	358/84	
	4,663,735	05/05/87	Novak et al.	364/900	
	4,677,434	06/30/87	Fascenda	380/23	
	4,677,466	06/30/87	Lert, Jr. et al.	358/84	
	4,677,611	06/30/87	Yanosy, Jr. et al.	370/85	
	4,680,581	07/14/87	Kozlik et al.	340/825.06	
	4,684,980	08/04/87	Rast et al.	358/86	
	4,685,056	08/04/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	08/04/87	Horne	380/20	
	4,688,197	08/18/87	Novak et al.	365/230	
	4,688,247	08/18/87	Davidov	380/19	
	4,689,022	08/25/87	Peers et al.	434/307	
	4,689,619	08/25/87	O'Brien, Jr.	340/825.08	
	4,691,351	09/01/87	Hayashi et al.	380/10	
	4,692,817	09/08/87	Theis	360/12	
	4,692,819	09/08/87	Steele	360/72.1	
	4,694,490	09/15/87	Harvey et al.	380/20	
	4,694,491	09/15/87	Horne et al.	380/20	03/11/85
	4,695,953	09/22/87	Blair et al.	364/410	04/14/86
	4,696,034	09/22/87	Wiedemer	380/16	10/12/84
	4,697,281	09/29/87	O'Sullivan	379/59	03/14/86

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	4,701,794	10/20/87	Fröling et al.	358/147	04/12/85
	4,704,725	11/03/87	Harvey et al.	380/48	
	4,706,121	11/10/87	Young	358/142	05/06/86
	4,707,828	11/17/87	Yamada	370/85	09/10/85
	4,709,418	11/24/87	Fox et al.	455/612	09/14/83
	4,710,800	12/01/87	Fearing et al.	358/22	09/16/85
	4,710,919	12/01/87	Oliver et al.	370/96	
	4,710,955	12/01/87	Kauffman	380/10	11/25/85
	4,712,105	12/08/87	Köhler	340/825.69	04/30/85
	4,712,238	12/08/87	Gilhousen et al.	380/20	06/08/84
	4,712,239	12/08/87	Frezza et al.	380/20	06/16/86
	4,718,107	01/05/88	Hayes	455/4	
	4,720,819	01/19/88	Pinkham et al.	365/219	12/30/83
	4,722,526	02/02/88	Tovar et al.	273/1 E	01/20/87
	4,723,302	02/02/88	Fulmer et al.	455/2	
	4,724,491	02/09/88	Lambert	358/310	08/28/84
	4,728,949	03/01/88	Platte et al.	340/825.37	03/23/84
	4,731,679	03/15/88	O'Gwynn et al.	360/73	09/20/84
	4,733,301	03/22/88	Wright, Jr.	358/181	06/26/87
	4,734,764	03/29/88	Pocock et al.	358/86	05/06/85
	4,734,907	03/29/88	Turner	370/60	09/06/85
	4,736,422	04/05/88	Mason	380/120	
	4,737,993	04/12/88	DeVilbiss	455/180	01/21/87
	4,739,510	04/19/88	Jeffers et al.	380/15	04/02/87
	4,740,890	04/26/88	William	364/200	12/22/83
	4,745,468	05/17/88	Von Kohorn	358/84	03/10/86
	4,745,549	05/17/88	Hashimoto	364/402	06/06/86
	4,745,598	05/17/88	Ulug	370/89	11/27/85
	4,747,081	05/24/88	Heilveil et al.	365/219	12/30/83
	4,747,139	05/24/88	Taaffe	380/44	10/21/86
	4,748,560	05/31/88	Kataoka	364/200	10/11/85
	4,750,036	06/07/88	Martinez	358/147	05/14/86
	4,750,213	06/07/88	Novak	455/67	06/09/86
	4,751,578	06/14/88	Reiter et al.	358/183	05/28/85
	4,751,665	06/14/88	Cappello et al.	364/748	02/24/86
	4,751,732	06/14/88	Kamitake	380/20	
	4,754,326	06/28/88	Kram et al.	364/900	10/25/83
	4,755,871	07/05/88	Morales-Garza et al.	358/84	11/25/86
	4,755,883	07/05/88	Uehira	358/335	09/11/85
	4,761,646	08/02/88	Choquet et al.	340/825.520	05/20/86
	4,763,317	08/09/88	Lehman et al.	370/58	12/13/85
	4,768,087	08/30/88	Taub et al.	358/84	06/06/85
	4,768,110	08/30/88	Dunlap et al.	360/33.1	05/06/87
	4,768,144	08/30/88	Winter et al.	364/200	10/20/86
	4,768,228	08/30/88	Clupper et al.	380/20	09/11/87

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	4,768,229	08/30/88	Benjamin et al.	380/20	
	4,771,456	09/13/88	Martin et al.	380/10	11/06/86
	4,775,935	10/04/88	Yourick	364/401	09/22/86
	4,783,846	11/08/88	Wachob	455/151	06/04/87
	4,785,420	11/15/88	Little	364/513.5	
	4,786,979	11/22/88	Claus et al.	358/335	05/22/86
	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	05/29/87
	4,789,863	12/06/88	Bush	340/825.350	01/13/88
	4,792,849	12/20/88	McCalley et al.	358/86	08/04/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/04/87
	4,796,181	01/03/89	Wiedmer	364/406	
	4,802,114	01/31/89	Sogame	364/900	12/15/86
	4,803,725	02/07/89	Horne et al.	380/44	05/14/87
	4,805,014	02/14/89	Sahara et al.	358/86	09/14/87
	4,805,020	02/14/89	Greenberg	358/147	
	4,809,274	02/28/89	Walker et al.	371/37	
	4,812,843	03/14/89	Champion, III et al.	340/905	08/11/87
	4,813,011	03/14/89	Kulakowski et al.	364/900	05/13/85
	4,815,129	03/21/89	Griffin et al.	380/15	01/02/85
	4,816,904	03/28/89	McKenna et al.	358/84	
	4,816,905	03/28/89	Tweedy et al.	358/86	04/30/87
	4,821,032	04/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	04/11/89	Ichikawa et al.	358/183	07/29/87
	4,825,050	04/25/89	Griffith et al.	235/379	09/13/83
	4,827,508	05/02/89	Shear	380/4	10/14/86
	4,829,372	05/09/89	McCalley et al.	358/86	08/20/87
	4,829,569	05/09/89	Seth-Smith et al.	380/10	07/08/86
	4,833,710	05/23/89	Hirashima	380/20	12/03/87
	4,837,858	06/06/89	Ablay et al.	455/34	04/30/87
	4,841,386	06/20/89	Schiering	360/69	
	4,843,482	06/27/89	Hegendorfer	358/335	
	4,845,491	07/04/89	Fascenda et al.	340/825.44	05/15/87
	4,847,698	07/11/89	Freeman	358/343	07/16/87
	4,847,699	07/11/89	Freeman	358/343	07/16/87
	4,847,700	07/11/89	Freeman	358/343	07/16/87
	4,855,842	08/08/89	Hayes et al.	358/342	
	4,866,706	09/12/89	Christophersen et al.	370/85.7	08/27/87
	4,868,866	09/19/89	Williams, Jr.	380/49	02/18/88
	4,876,592	10/24/89	Von Kohorn	358/84	05/10/88
	4,879,611	11/07/89	Fukui et al.	360/69	
	4,885,579	12/05/89	Sandbank	340/825.72	
	4,885,775	12/05/89	Lucas	380/10	09/21/84
	4,887,172	12/12/89	Steele	360/73.06	04/10/87

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	4,888,796	12/19/89	Olivo, Jr.	379/101	08/31/87
	4,890,321	12/26/89	Seth-Smith et al.	380/20	09/30/88
	4,893,248	01/09/90	Pitts et al.	364/464.01	02/06/87
	4,916,539	04/10/90	Galumbeck	358/142	03/14/89
	4,926,255	05/15/90	Von Kohorn	358/84	05/10/88
	4,941,040	07/10/90	Pocock et al.	358/86	02/10/88
	4,969,209	11/06/90	Schwob	455/158	06/29/88
	4,974,252	11/27/90	Osborne	379/92	10/04/88
	4,977,594	12/11/90	Shear	380/4	02/16/89
	4,982,430	01/01/91	Frezza et al.	380/50	
	4,993,066	02/12/91	Jenkins	380/16	
	5,010,571	04/23/91	Katznelson	380/4	09/10/86
	5,034,807	07/23/91	Von Kohorn	358/84	10/19/89
	5,036,537	07/30/91	Jeffers et al.	380/20	04/03/87
	5,045,848	09/03/91	Fascenda	340/825.26	09/29/87
	5,050,213	09/17/91	Shear	380/25	08/06/90
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90
	5,060,140	10/22/91	Brown et al.	364/200	01/16/86
	5,083,271	01/21/92	Thacher et al.	364/411	08/03/88
	5,089,885	02/18/92	Clark	358/86	08/01/88
	5,128,752	07/07/92	Von Kohorn	358/84	10/25/90
	5,140,419	08/18/92	Galumbeck et al.	358/142	12/21/89
	5,144,663	09/01/92	Kudelski et al.	380/16	11/13/90
	5,152,011	09/29/92	Schwob	455/158.5	06/19/90
	5,152,012	09/29/92	Schwob	455/158.5	04/27/90
	5,163,024	11/10/92	Heilveil et al.	365/219	05/09/90
	5,172,111	12/15/92	Olivo, Jr.	340/825.31	12/18/89
	5,177,604	01/05/93	Martinez	358/86	06/03/88
	5,191,410	03/02/93	McCalley et al.	358/86	02/05/91
	5,195,092	03/16/93	Wilson et al.	370/94.2	08/30/91
	5,208,665	05/04/93	McCalley et al.	358/86	02/15/91
	5,216,552	06/01/93	Dunlap et al.	360/33.1	08/30/88
	5,227,874	07/13/93	Von Kohorn	358/84	10/15/91
	5,283,734	02/01/94	Von Kohorn	364/412	09/19/91
	D302,178	07/11/89	King	D20/1	11/28/86
	Re. 32,835	01/17/89	Howard	333/21 A	11/06/85
	Re. 33,662	08/13/91	Blair et al.	364/410	09/21/89
	Re. 33,808	01/28/92	Wright, Jr.	358/86	08/28/85
	Re. 34,034	08/18/92	O'Sullivan	379/59	09/29/89

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	46,108	02/17/82	EPO	H04N 5/76	X	
	49,184	04/07/82	EPO	G09B 7/08	X	
	55,167	06/30/82	EPO	G09G 1/16	X	
	56,649	07/28/82	EPO	H04N 5/44		
	77,712	04/27/83	EPO	H04N 7/00	X	
	78,185	05/04/83	EPO	H04N 7/00	X	
	103,438	03/21/84	EPO	H04N 7/10		
	128,481	12/19/84	EPO	H04N 7/00		
	132,007	01/23/85	EPO	H04N 7/16		
	133,985	03/13/85	EPO	H 04 N 7/087		
	152,251	08/21/85	EPO	H04H 1/02		
	206,821	12/30/86	EPO	H04N 7/00		
	217,308	04/08/87	EPO	H04M 11/00		
	1,189,612	06/25/85	Canada	Ho4n 7/08		
	1,204,190	09/03/70	Great Britain			
	1,213,357	11/25/70	Great Britain			
	1,216,977	01/20/87	Canada	HO4M 11/00		
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	2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
	2,126,002	03/14/84	Great Britain	G11B 15/02		
	2,141,897	01/03/85	Great Britain	H04N 7/16		
	2,164,229	03/12/86	Great Britain			
	2,167,917	06/04/86	Great Britain			
	2,185,670	07/22/87	Great Britain	H04N 7/087		
	2,356,969	05/22/75	Germany			X
	2,496,376	06/18/82	France	H04N 7/00	X	
	2,516,733	05/05/83	France	H04N 7/00	X	
	2,831,014	04/03/80	Germany		X	
	3,020,787	12/17/81	Germany	H04N 7/08	X	
	3,039,949	05/06/82	Germany	H04M 3/42	X	
	3,112,249	10/07/82	Germany	G09G 1/28	X	
	3,337,204	04/25/85	Germany	H04N 5/44	X	
	53-068124	06/17/78	Japan			X
	55-26792	02/26/80	Japan		X	
	55-49084	04/08/80	Japan			X
	55-79585	06/16/80	Japan		X	
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